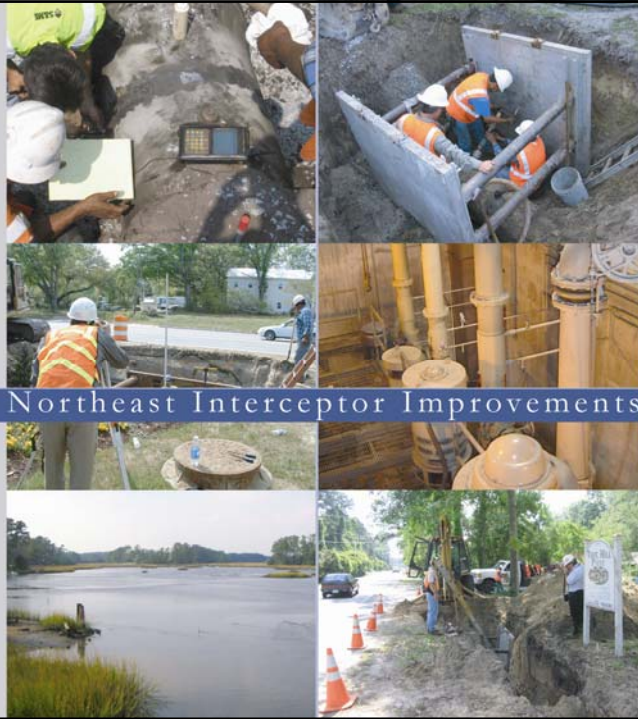


Public Meeting
August 27, 2007



Northeast Interceptor Improvements



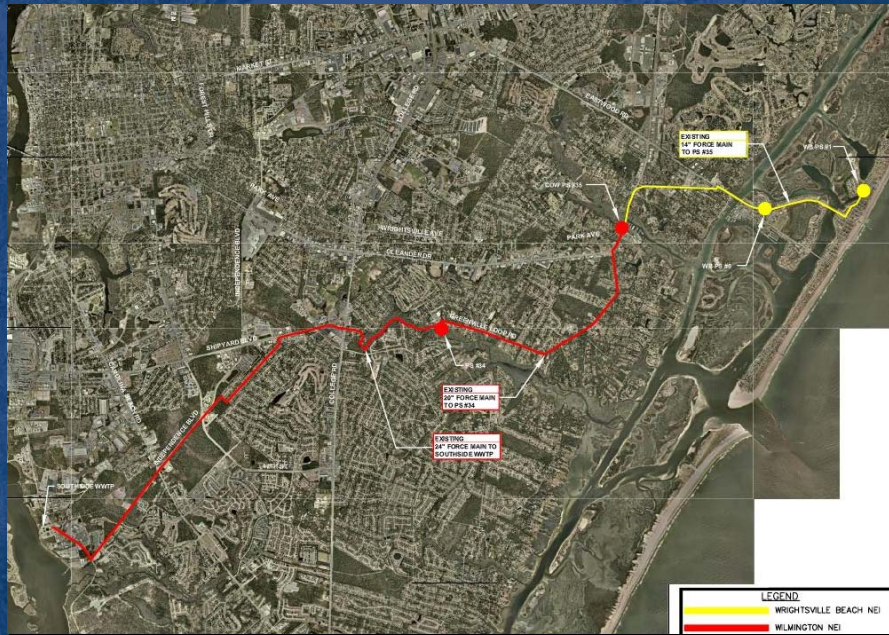
Prepared by:
Kimley-Horn
and Associates, Inc.
HIGHFILL
Greenville, South Carolina

Presentation Agenda

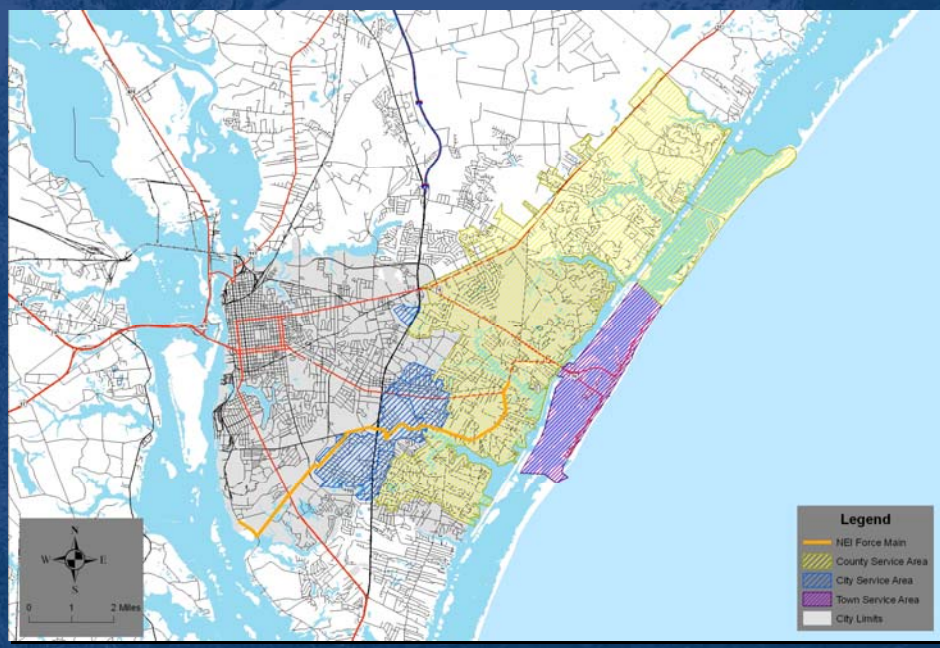
- Description of Existing System
- Recommended Improvements
- Near Term Improvements
 - ⇒ Greenville Loop Road
 - ⇒ Hewlett's Creek Relocation
 - ⇒ NHC Junction Box at Bradley Creek
- What to expect - next few months



NORTHEAST INTERCEPTOR SYSTEM



NEI SERVICE AREA



4 Phases of Capital Improvements

1. DIRP Improvements (4-6 months)
2. Interim Improvements (18 months)
3. System Expansion (3 years)
4. Additional Rehabilitation (3½ years)

Projected Cost: \$34 - \$42 Million
(Depending on the alternative selected)



DIRP Improvements (4-6 months)

- Rehabilitate 2,000 LF of 20" FM
- Replace all air release valves (ARVs)
- Replace repair ARV vaults
- Rehabilitate/replace 450 LF 20" gravity sewer
- Replace junction manholes @ PS 34 & 35

Projected Cost: \$1.9 M



NEI Interim Improvements (18 mo.)

- PS 34 & 35 improvements (electrical)
- Interim PS capacity improvements
- 24" force main relocation (Hewlett's Creek)
- Odor & corrosion control system modifications
- Infiltration and inflow reduction program
- PS 34 generator

Projected Cost: \$ 8.7 M



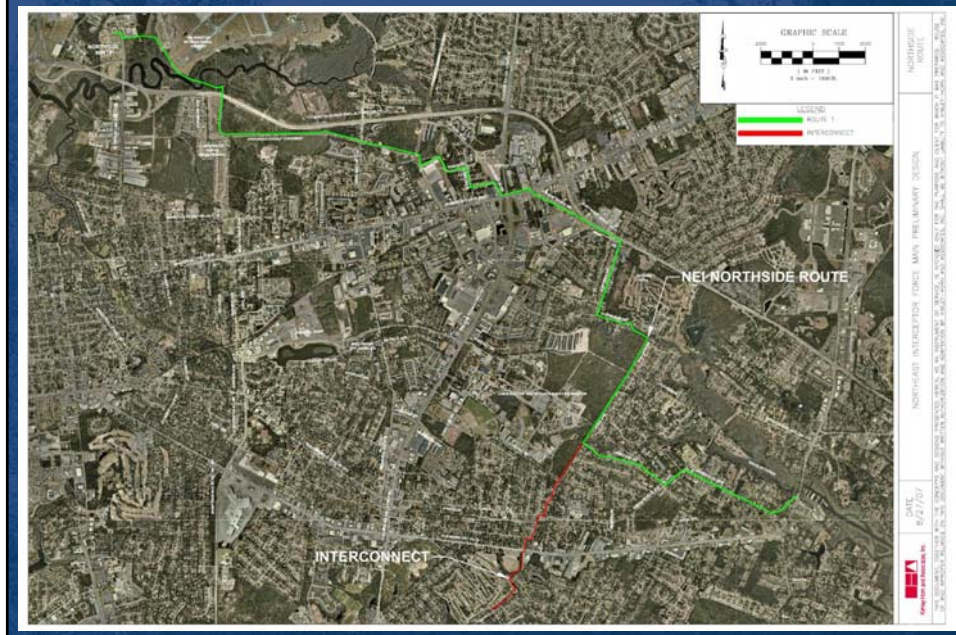
NEI Expansion (3 years)

- 24"/30" Northside force main
- Bradley Creek PS expansion
- Hewlett's Creek PS improvements
- NHC Pump Station 77 improvements

Projected Cost: \$20.2 - \$27.7 M



Northside Force Main



Northeast Interceptor Improvements

Future NEI Rehabilitation (3 ½ years)

- Replace remaining ARV vaults
- Rehab/replace 4,800 LF 20" FM

Projected Cost: \$ 2.1 M



Greenville Loop Road Work (DIRP)

- Rehabilitate 2,000 LF of 20" FM
- Replace all air release valves (ARVs)
- Replace/repair ARV vaults
- Rehabilitate/replace 450 LF 20" gravity sewer
- Replace junction manhole @ the Hewlett's Creek PS
- Schedule: Awarded *June 19, 2007*
 Construction *Aug. 07 – Nov. 07*
- Contract Amount: \$1.8 M

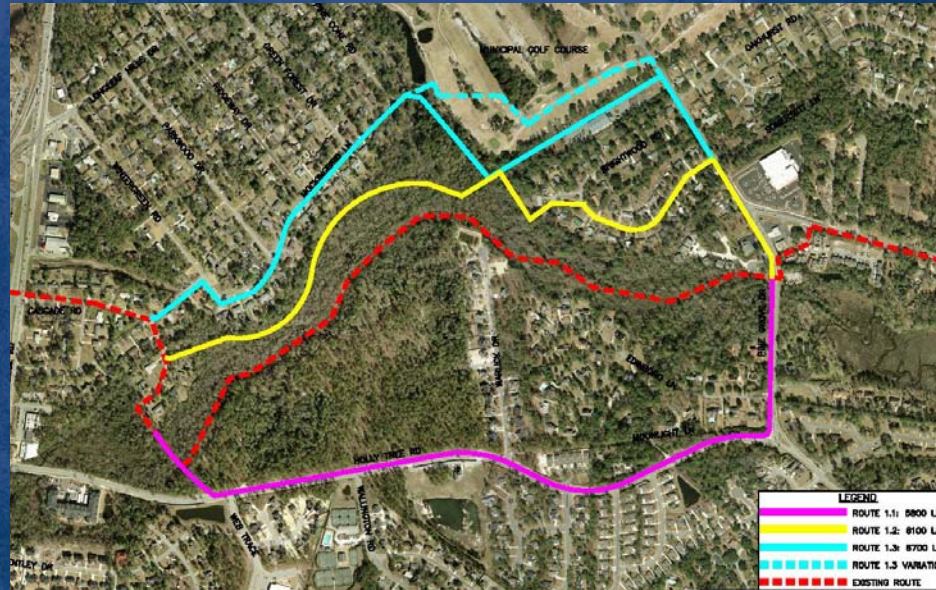


Hewlett's Creek Relocation

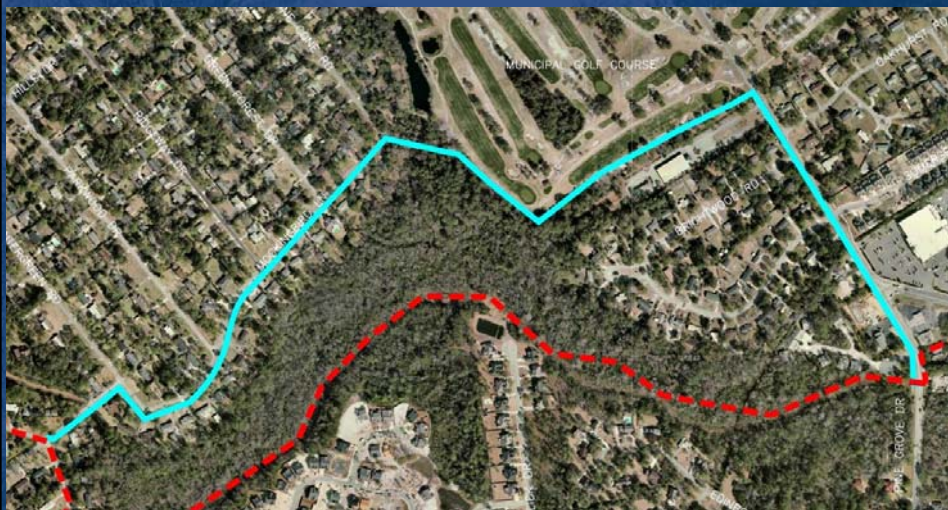
- Relocation/Replacement of 6,600 LF of 24" Pipe
- Schedule: Awarded *July 10, 2007*
 Construction *Aug. 07 – Jan. 08*
- Contract Amount: \$2 M



Hewlett's Creek Relocation



Hewlett's Creek Relocation



WILMINGTON MUNICIPAL GOLF COURSE

HOLE #6

LEGEND
 SELECTED ALTERNATE

GRAPHIC SCALE
 0 100 200
 0 100 200
 0 100 200

DATE
 8/12/07

NOTHING IS REPRESENTED BY THIS MAP. THE COURSE AND HOLE ARE NOT TO BE CONSIDERED AS A SUBSTITUTE FOR A PROFESSIONAL SURVEYOR'S REPORT. THE COURSE AND HOLE ARE NOT TO BE CONSIDERED AS A SUBSTITUTE FOR A PROFESSIONAL SURVEYOR'S REPORT.

WILMINGTON MUNICIPAL GOLF COURSE

8/12/07

[illegible]

Pump Station Improvements

- Replace junction manhole at the Bradley Creek PS
(Joint project with New Hanover County)
- Install Interim Pumps at Bradley Creek and Hewlett's Creek
- Schedule: Construction *Aug. 07 – Dec. 07*
- Contract Amount: \$1.2 M



Efforts to expedite projects

- Off-the-shelf components
- Multiple construction crews / shortened construction periods
- Minimize easement acquisition
 - Utilize City/Government property
 - Utilize Progress Energy & DOT R/Ws



Odor and Corrosion Control Improvements

- Chemical testing in progress
- Requires field adjustment
- Periodic odors are anticipated
- Schedule:

NEI field testing *Mar. 07 – Nov. 07*

Eval. City-wide system *Nov. 07 – Mar. 08*

Design / Const. *April 08 – Dec. 08*



Work areas for the next few months

- Greenville Loop Road
- Tidal Oaks/Oakmont Subdivision
- Independence Blvd. / River Road
- Pine Grove Drive
- Municipal Golf Course
- Mockingbird Lane / Cascade Road
- Oleander Drive / Bradley Creek Pump Station
- Hewlett's Creek Pump Station



Open Excavations



Air Release Valve Vault Retrofits



Pipeline Liner Installation



Installation of New Force Main



The next few months – what to expect

- traffic impacts
- disturbance / restoration
- property access
- trash / recycling collection
- US mail



Breakout Discussion Groups

- Greenville Loop Road Rehabilitation
- Hewlett's Creek Pipe Replacement
- Northside Force Main



Thank you for coming!

*** Please leave your Comment Form ***
at the registration table.

Key questions and answers will be
posted on the city's website at
www.wilmingtonnc.gov.

